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UNITED STATES GOVERNMENT

# Memorandum

TO : Director of Communications

OCE-M76-001

DATE: 2 January 1976

FROM : Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report -- December 1975

1. The production effort of the SV-8 Secure Voice System was resumed during the month of December. Four SV-8 Systems were assembled and delivered to OC-CS and OC-O/COD to satisfy respective requirements for [REDACTED] EMI testing and presentation/demonstration to the DDO/TRB Working Group. Twenty-five SV-8 Systems (including the four issued above) were completed by the end of December. In addition, the 12 SV-8's forwarded to the Area Headquarters for the SV-8 Field Introduction Program were recalled for updating and modification.

25X1A2g

2. Approval and concurrence was received and procurement of 50 RS/C-523 Voice Privacy Transceivers and procurement action has been initiated by [REDACTED] Funds were also approved for the production of 50 AL-16 Remote Alarms, 20 CU-37 Control Units, modifications to the DL Infrared Data Transceiver and for the procurement of ten 40-watt amplifiers.

25X1A

25X1A6b 3. [REDACTED] was the first to report on installation and activation of KB/2000-G Code Generator Units which were deployed in September to those stations involved in medium-speed operations. The KB/2000-G is a direct replacement for the KE-22 keyer in the PD-2. [REDACTED] reported that two units had been installed and considered operational 29 October. One unit subsequently failed and was replaced. The two units were operating flawlessly at the time of the report. [REDACTED] indicated that the KB/2000-G is considered an excellent replacement for the KE-22.

25X1A6b

25X1A6b

25X1A2g 4. There are indications that the temperature inside [REDACTED] is decreasing as the spacecraft passes through the eclipse portion of each orbit. This decrease of temperature may have resulted because of a failure with the heaters inside the battery compartment. OD&E requested OC to have [REDACTED] use each [REDACTED] daylight pass to generate heat inside the spacecraft. Monitoring of the satellite temperature is continuing by OD&E and OC personnel.

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25X1A2g

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5. The "Hot Mike Mod" on all stock TL-4 phones is complete. The phones are undergoing quality control tests in QAB prior to return to stock.

6. The dismantling of the vibration equipment for removal has begun with the packing of the control console and amplifier units selected by OTS for their use. The 25X1A6a [REDACTED] will be soliciting bids in January for the removal of the remaining equipment and the room renovation for office space.

7. A concentrated effort was made during December to reduce the number of pending evaluations. As a result, the Class C memorandum report on the [REDACTED] Shortwave Receiver and the Class B report on the [REDACTED] intercept receiver has been published. An additional seven evaluations are in rough draft or final typing stage at this time.

8. Two evaluations of equipment for customers outside of CED are in process: The KY-58 [REDACTED] for OC-CS and 25X1A2g the [REDACTED] analog-to-digital SKYLINK voice processor for OC-E/SED.

9. A program was inaugurated to subject [REDACTED] to a 100-hour, burn-in test. A number of failures had surfaced as a result of the program confirming that it is a worthwhile effort. All units will be recorded as having undergone this procedure.

10. With the assistance and cooperation of the OC-IC Staff, procedures were established whereby the Repair/ 25X1A6a Return Section, [REDACTED] can now prepare unclassified pouches for delivery to field stations. Previously, the material to be pouched was sent to OC-IC where the pouch was prepared and sent to the Information Processing Staff of the DDO [REDACTED]. Under the new arrangement, the completed pouch is turned over to the Freight Traffic Branch, [REDACTED] for

25X1C [REDACTED]. Several steps and handling points are eliminated by this procedure, and two or three days may be saved in field delivery time. Prepared pouch and address labels are used to further facilitate the pouching procedure.

11. Due to the lack of funds, the ITS-W program has been delayed until either May or October 1976, depending on whether year-end funds are available.

12. Assembly and initial testing of the Software CSR logic was completed at MAX-II and MAX-III during December. Software Support Section personnel aided on-site programmers in building new Autostart tapes incorporating the new logic and in conducting pseudo on-line tests of the Autostarts at each site. On-line evaluation of the Software CSR at MAX-II began on 23 December and MAX-III on 30 December.

13. The ARS-IV System was officially accepted on 11 December 1975. ARS software coding for a 300 BPS trunk has been completed and on-line testing between [REDACTED] 25X1A6b [REDACTED] is scheduled for mid-January.

14. A letter for transmittal to [REDACTED] has been drafted expressing concern over recent indications that CDS may not meet some of the critical performance requirements.

25X1A6a 15. Work on the [REDACTED] project is progressing on schedule. The installation of cable conduit is now 90 percent completed and cable pulling for the secure phones will begin during the week of 5 January. The installation of the microwave system is scheduled to begin on 12 January and the installation of the interim KY-3 secure voice service 25X1A6a for [REDACTED] is scheduled for 15 February.

25X1C 16. [REDACTED] has been given cost information and drawings for a typical SKYLINK installation. This information was requested by the OC Plans and Engineering Branch.

25X1C 17. The [REDACTED] satellite, which operated perfectly during the previous month, has again been the subject of several SKYLINK outages. The worst outage lasted 18 hours. Investigations continued through the month into the use of the [REDACTED] satellites as alternates in the event of total failure of the [REDACTED] satellite. 25X1C

18. Extensive OWVL system testing is being conducted to determine all problem areas affecting quality of broadcast. The SG-75 AME mode of operation and AGC action is being investigated to establish proper modulation levels for square law detection. SY-3 sleeve variations have been identified and presented to CED/COD personnel as a problem area.

[REDACTED]

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25X1C

25X1A9a

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